		Application	n No.	Applicant(s)		
Office Action Summary		10/004,34	5	SHIBATA ET AL.		
		Examiner		Art Unit		
		David L. H		2813		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)[\bar{\bar{\bar{\bar{\bar{\bar{\bar{	Responsive to communication(s) filed on	07 November 20	003.			
	<u> </u>	This action is no				
<i>'</i> _						
Disposition of Claims						
4)⊠	I)⊠ Claim(s) <u>7-9</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>7-9</u> is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction a	and/or election re	equirement.			
Application Papers						
9) The specification is objected to by the Examiner.						
10) $oximes$ The drawing(s) filed on <u>02 November 2001</u> is/are: a) $oximes$ accepted or b) $oximes$ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
reference was included in the mot sentence of the openineation of in an Application Data Office. or Of it 1.70.						
Attachmen						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N		4) Interview Summary (5) Notice of Informal Page (6) Other:			

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DETAILED ACTION

This Office Action is in response to Amendment B filed on November 7, 2003.

Status of Claims

Claims 7-9 are pending. Claims 1-6 are cancelled.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on July 28, 2003, has been considered by the examiner.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over 5,599,732 to Razeghi in view of 6,146,464 to Beinglass et al.

Razeghi teaches a reactor in which a MOCVD reaction between a Group III raw material gas and a Group V raw material gas is generated (See columns 2-3 lines 18-67 and Figure); a susceptor to hold a substrate (See columns 2-3 lines 18-67 and Figure); a heater to heat the substrate to a predetermined temperature via the susceptor (See columns 2-3 lines 18-67 and Figure); wherein at least one of the interior walls of the reactor and the susceptor is coated with an Al_aGa_bIn_cN film (a+b+c=1, a>0) or an AlN

film, which is heated to a temperature of 1000 °C or more (See columns 2-3 lines 18-67 and Figure).

Razeghi fails to explicitly teach wherein the susceptor includes a groove portion and the substrate is positioned in the groove portion.

However, Beinglass et al., in Figures 4 and 6 and the Abstract, teaches a susceptor plate with a recess/groove formed for receiving a wafer.

It would have been obvious to one of ordinary skill in the art to modify Razeghi by incorporating a susceptor plate with a recess/groove formed for receiving a wafer, as taught by Beinglass et al., to prevent lateral movement of the wafer during further processing.

Response to Arguments

4. Applicant's arguments with respect to claims 7-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5,119,541 to Ohmi et al. teaches placing a wafer within a recessed groove of a susceptor for further processing.

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JP 10-284,425 to Atsushi teaches placing a wafer within a recessed groove of a susceptor for further processing.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Hogans whose telephone number is (703) 305-3361 or (571) 272-1691, after February 9, 2004. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (703) 308-4940. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

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